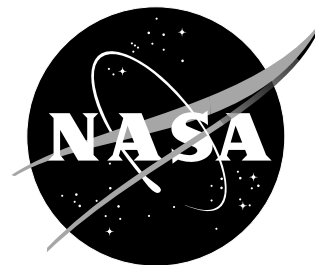


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NASA Langley 2001 Fall AGU Tip Sheet

Scientists from NASA Langley Research Center, Hampton, Va., will report on new atmospheric science discoveries and areas of exploration at the Fall American Geophysical Union meeting in San Francisco, Dec. 10-14, 2001. Details of scheduled papers and poster sessions follow:

Earth Science Education and the Girl Scouts USA

The Atmospheric Sciences Program at NASA Langley developed workshops for Girl Scout leaders and trainers at the national and local council level. These workshops are designed to enhance the interest of young girls in Earth science. Girls are the target area because they are underrepresented in the Earth sciences. Program overview presented by Arlene Levine.

Monday, Dec. 10, 10:55 a.m.—Moscone Center (MC) 121, Session ED11A

Improved Results from Stratospheric Aerosol and Gas Experiment (SAGE) II

New information about how water vapor—the most abundant, naturally occurring greenhouse gas—varies from season to season and from north to south. Presented by Ghassen Taha.

Monday, Dec. 10, 4:50 p.m.—MC 123, Session A12C

From Days to Decades: The Sun and the Earth Linked by a Tenuous Wind

Observations suggest solar wind significantly impacts global amounts of odd nitrogen and ozone, potentially affecting climate in the lower atmosphere. Presented by Linwood Callis.

Tuesday, Dec. 11, 4:20 p.m.—MC 134, Session U22B

Climate Observing System Challenges

Session speakers will present challenges facing the U.S. research community in obtaining and maintaining an accurate and complete climate record. Session convener is Bruce Wielicki.

Wednesday, Dec. 12, 8:30 a.m.—MC 308, Session GC31B

POSTER SESSIONS

The latest educational outreach activities in support of the SAGE III satellite launch in late 2001 by the SOLAR (Students' On-Line Atmospheric Research) program is presented by Susan Moore.

Monday, Dec. 10, 1:30 p.m.—MC Hall D, ED12A

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New presenters will discuss new research contributions to atmospheric science covering topics such as climate change, El Niño and La Niña events and weather forecasts. Session convener is Melody Avery.

Monday, Dec. 10, 1:30 p.m.—MC Hall D, Session A12A

Unique, global observations of aerosols in the lower atmosphere from the Lidar In-Space Technology Experiment (LITE), built by NASA Langley and flown on the Space Shuttle Discovery in 1994, is presented by David Winker.

Tuesday, Dec. 11, 8:30 a.m.—MC Hall D, Session A21A

Overview of future groundbreaking measurements by the FIRST instrument (Far-Infrared Spectroscopy of the Troposphere) of far-infrared thermal radiation—energy that is virtually unobserved despite containing about half the amount of total heat emitted from the Earth is presented by Marty Mlynczak.

Wednesday, Dec. 12, 1:30 p.m.—MC Hall D, Session GC32A

Identifying issues for long-term data understandability is presented by Bruce Barkstrom.

Wednesday, Dec. 12, 1:30 p.m.—MC Hall D, Session GC32A

A summary of the Chesapeake Lighthouse and Aircraft Measurements for Satellites (CLAMS) campaign conducted during Summer 2001 to validate and improve measurements of atmospheric aerosols and the Earth's heat budget from NASA's Terra satellite is presented by Bill Smith.

Thursday, Dec. 13, 8:30 a.m.—MC Hall D, Session A41B

Determining an accurate shortwave energy budget for the atmosphere in cloudless conditions using satellite, field campaign and validation experiment measurements is presented by Thomas Charlock.

Thursday, Dec. 13, 8:30 a.m.—MC Hall D, Session A41B

Results from ongoing research at the Atmospheric Sciences Data Center to visualize large scale, multiparameter atmospheric science data sets and models using immersive 3-D worlds is presented by James Frenzer.

Thursday, Dec. 13, 1:30 p.m.—MC Hall D, NG42B